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## **CLAIMS**

What is claimed is:

1. A microdevice for forming a part of an integrated circuit, comprising: a first conductive region and a second conductive region having a channel region interposed therebetween; and

a channel region controlling component disposed over the channel region and separated therefrom by at least one dielectric layer, wherein the channel region controlling component has a non-linear structural characteristic derived from a non-linear structural characteristic of a photo resist feature used as an etch mask for the channel region controlling component.

- 2. The microdevice according to claim 1, wherein the non-linear characteristic of the photo resist feature provides mechanical stability to the photo resist feature.
- 3. The microdevice according to claim 2, wherein the non-linearcharacteristic of the photo resist feature includes an arc.
  - 4. The microdevice according to claim 2, wherein the non-linear characteristic of the photo resist feature includes a vertex.
  - 5. The microdevice according to claim 2, wherein the non-linear characteristic of the photo resist feature includes a tab extending laterally beyond a width of the photo resist feature.
  - 6. The microdevice according to claim 2, wherein the channel region controlling component is made by deconstructive patterning of one of the photo resist feature or a structure patterned using the photo resist feature.

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- 7. The microdevice according to claim 2, wherein the microdevice is a transistor, the channel region controlling component is a gate electrode, the first conductive region is a source and the second conductive region is a drain.
- 8. The mircodevice according to claim 7, wherein at any point measured generally perpendicular to a bisector of the gate electrode, the gate electrode has a generally constant dimension.
  - 9. The microdevice according to claim 8, wherein a gate length is defined by the generally constant dimension.
- The microdevice according to claim 8, wherein the generally
  constant dimension is one of a physical dimension or an electrical dimension.
  - 11. The microdevice according to claim 2, wherein the microdevice is a flash memory device, the channel region controlling component is a word line and the first and second conductive regions are bit lines.
- 12. The microdevice according to claim 11, wherein the flash memorydevice is a dielectric charge trapping flash memory device.
  - 13. A method of fabricating a microdevice for an integrated circuit, comprising:

providing a wafer having a photo resist layer disposed over an underlying layer;

exposing and developing the photo resist layer to form a photo resist feature having a non-linear structural characteristic, the non-linear characteristic of the photo resist feature providing mechanical stability to the photo resist feature; and

etching the underlying layer to form a component of the microdevice from the underlying layer, the component having a non-linear structural characteristic corresponding to the non-linear characteristic of the photo resist feature. 10

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14. The method according to claim 13, wherein the non-linear characteristic of the photo resist feature includes an arc.

- 15. The method according to claim 13, wherein the non-linear characteristic of the photo resist feature includes a vertex.
- 5 16. The method according to claim 13, wherein the non-linear characteristic of the photo resist feature includes a tab extending laterally beyond a width of the photo resist feature.
  - 17. The method according to claim 13, wherein the component of the microdevice is a channel region controlling component and the method further includes deconstructive patterning of one of the photo resist feature or a structure patterned using the photo resist feature as part of forming the component.
  - 18. The method according to claim 13, wherein the microdevice is a transistor, the component is a gate electrode of the transistor, the first conductive region is a source and the second conductive region is a drain.
  - 19. The method according to claim 18, wherein at any point measured generally perpendicular to a bisector of the gate electrode, the gate electrode has a generally constant dimension, the generally constant dimension defining a gate length.
  - 20. The method according to claim 19, wherein the generally constant dimension is one of a physical dimension or an electrical dimension.
  - 21. The method according to claim 13, wherein the microdevice is a flash memory device, the component is a word line and the first and second conductive regions are bit lines.